	Application No.	Applicant(s)	η-
	10/017,318	HONG, JOON KI	
Notice of Allowability	Examiner	Art Unit	
	Nathan W. Ha	2814	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	pears on the cover sheet w S (OR REMAINS) CLOSED in Si) or other appropriate comm RIGHTS. This application is	ith the correspondence address n this application. If not included unication will be mailed in due cours	se. THIS
1. This communication is responsive to <u>1/7/04</u> .			
2. The allowed claim(s) is/are <u>1 and 4</u> .			
3. $\boxtimes$ The drawings filed on <u>18 December 2001</u> are accepted by	y the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority unally All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have all the priority documents have the priority documents have all the priority documents have all</li></ul>	re been received. re been received in Applicati	on No	from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ments
5. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") mutering (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in</li> </ol>	rson's Patent Drawing Revie   r's Amendment / Comment of  1.84(c)) should be written on the	r in the Office action of the drawings in the front (not the back	k) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☑ Examiner's	nformal Patent Application (PTO-15) Summary (PTO-413), /Mail Date : s Amendment/Comment s Statement of Reasons for Allowand	

## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Atty. Susan Bailey on February 26, 2004.

The application has been amended as follows:

In The Claims:

Please replace the first paragraph of the claim 1 (lines 2-4) with:

"a substrate having first and second opposing sides, each of said sides having a predetermined-size groove with an adjacent circuit pattern, said grooves being arranged on said opposing sides of said substrate such that said grooves do not overlap with each other;"

Please delete the phrase "each of", on line 6, claim 1.

Please replace element "chips" with "chip", claim 1, line 6.

Please delete the phrase "each of", claim 1, line 10.

Please replace element "chips" with "chip", claim 1, line 10.

Please replace the two elements "chips" with "chip", claim 1, line 15.

Application/Control Number: 10/017,318

Art Unit: 2814

Please replace element "chips" with "chip", claim 1, last paragraph (page 3 of the amendment), line 1.

Please replace element "chips" with "chip", claim 1, last paragraph (page 3 of the amendment), line 2.

Please replace the last appearance "the" with "a respective circuit", last paragraph (page 3 of the amendment), line 2.

Please replace the element "patterns" with "pattern", last paragraph (page 3 of the amendment), line 3.

## Allowable Subject Matter

- 2. Claims 1 and 4 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

After carefully reviewed the Applicant's arguments and newly amended claims in paper filed 1/7/04, and updated prior art of record, the Examiner finds that the Applicants' arguments and newly added limitations are reasonable and strongly persuasive. Therefore, they place the application in condition for allowance. The primary reason for the indication of the allowability of claims 1 and 4 is the inclusion therein, in combination as currently claimed, of the limitation of the stack chips that integrated in the grooves which are formed on the both side of the substrate and do not overlap with each other. This limitation is found in the above claims and is neither disclosed nor taught by the prior art of record, alone or in combination.

Art Unit: 2814

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan W. Ha whose telephone number is (571) 272-1707. The examiner can normally be reached on M-TH 8:00-7:00(EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nathan Ha February 26, 2004

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